



Click [here](#) for the 3D model.

#### General Information

|                          |                                                             |
|--------------------------|-------------------------------------------------------------|
| Series                   | SMD Auto X8G HT150C                                         |
| Style                    | SMD Chip                                                    |
| Description              | SMD, MLCC, High Temperature, Ultra-Stable, Automotive Grade |
| Features                 | High Temperature, Ultra-Stable, Automotive Grade            |
| RoHS                     | Yes                                                         |
| Termination              | Tin                                                         |
| Marking                  | No                                                          |
| Qualifications           | AEC-Q200                                                    |
| AEC-Q200                 | Yes                                                         |
| Typical Component Weight | 67 mg                                                       |
| Shelf Life               | 78 Weeks                                                    |
| MSL                      | 1                                                           |

#### Specifications

|                                                                    |                                                 |
|--------------------------------------------------------------------|-------------------------------------------------|
| Capacitance                                                        | 0.022 uF                                        |
| Measurement Condition                                              | 1 kHz 1.0Vrms                                   |
| Tolerance                                                          | 5%                                              |
| Voltage DC                                                         | 250 VDC                                         |
| Dielectric Withstanding Voltage                                    | 625 VDC                                         |
| Temperature Range                                                  | -55/+150°C                                      |
| Temp. Coefficient                                                  | X8G                                             |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | 30 ppm/C, 1kHz 1.0Vrms                          |
| Dissipation Factor                                                 | 0.1% 1 kHz 1.0Vrms                              |
| Aging Rate                                                         | 0% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance                                              | 45.4545 GOhms                                   |

#### Dimensions

|           |                 |
|-----------|-----------------|
| Chip Size | 1812            |
| L         | 4.5mm +/-0.3mm  |
| W         | 3.2mm +/-0.3mm  |
| T         | 1mm +/-0.10mm   |
| S         | 2.3mm MIN       |
| B         | 0.6mm +/-0.35mm |

#### Packaging Specifications

|                    |                          |
|--------------------|--------------------------|
| Packaging          | T&R, 180mm, Plastic Tape |
| Packaging Quantity | 1000                     |

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